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|--|--|--|
| <b>Index of Claims</b><br><br><b>*1052448</b><br><br><b>5*</b> | <b>Application/Control No.</b><br><br>10524485 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>SHINAGAWA ET AL. |
|  | <b>Examiner</b><br><br>ALLAHYAR KASRAIAN       | <b>Art Unit</b><br><br>2617  |

|   |          |   |            |   |              |   |          |
|---|----------|---|------------|---|--------------|---|----------|
| ✓ | Rejected | - | Cancelled  | N | Non-Elected  | A | Appeal   |
| = | Allowed  | ÷ | Restricted | I | Interference | O | Objected |

| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant |          |            |            |            |            |            |            |            |            |  | <input type="checkbox"/> CPA |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> T.D. |  |  |  |  |  |  |  |  |  |  | <input type="checkbox"/> R.1.47 |  |  |  |  |  |  |  |  |  |  |
|--|----------|------------|------------|------------|------------|------------|------------|------------|------------|--|------------------------------|--|--|--|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|---------------------------------|--|--|--|--|--|--|--|--|--|--|
| CLAIM  |          | DATE       |            |            |            |            |            |            |            |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| Final  | Original | 09/11/2007 | 01/15/2008 | 08/08/2008 | 01/29/2009 | 07/21/2009 | 12/30/2009 | 02/24/2010 | 12/15/2010 |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 1  | 1        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 2  | 2        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 3  | 3        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 4  | 4        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 5  | 5        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 6  | 6        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 7  | 7        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 8  | 8        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 9  | 9        | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 10       | ÷          | ✓          | ✓          | ✓          | ✓          | =          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 10   | 11       | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 11   | 12       | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
| 12   | 13       | ÷          | ✓          | ✓          | ✓          | ✓          | =          | =          | =          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 14       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 15       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 16       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 17       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 18       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 19       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 20       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 21       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 22       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 23       | ÷          | ✓          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 24       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 25       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 26       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 27       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 28       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 29       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 30       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 31       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |
|  | 32       | ÷          | N          | -          | -          | -          | -          | -          | -          |  |                              |  |  |  |  |  |  |  |  |  |  |                               |  |  |  |  |  |  |  |  |  |  |                                 |  |  |  |  |  |  |  |  |  |  |